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NOVEL POLYSACCHARIDE

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(57) Abstract:

PURPOSE: A novel polysaccharide that is composed of glucose, mannose, glucuronic acid and mannuronic acid with a specific acetylation degree and molecular weight, thus being suitably used as a thickener or diluent, because of its keeping the viscosity constant even in the presence of a salt.

CONSTITUTION: A new strain in Enterobacter, Enterobacter nichidenis (FERM- 5928), is inoculated to a medium and cultured aerobically by the shaking method to produce the objective new polysaccharide that is composed of glucose, mannose, glucuronic acid and mannuronic acid at a molar ratio of 1/(0.7W1.0)/(0.5W 0.7)/(0.1W0.3), with an acetylation degree of 0W1.0, a molecular weight of 10³W 10⁴, according to the gel filtration method, and being positive to the Molish reaction, phenol-sulfuric acid reaction and anthrone-sulfuric reaction, insoluble in solvents such as methanol, acetone or ether and soluble in water.

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